

A flow chart for array-based detection of gene expression

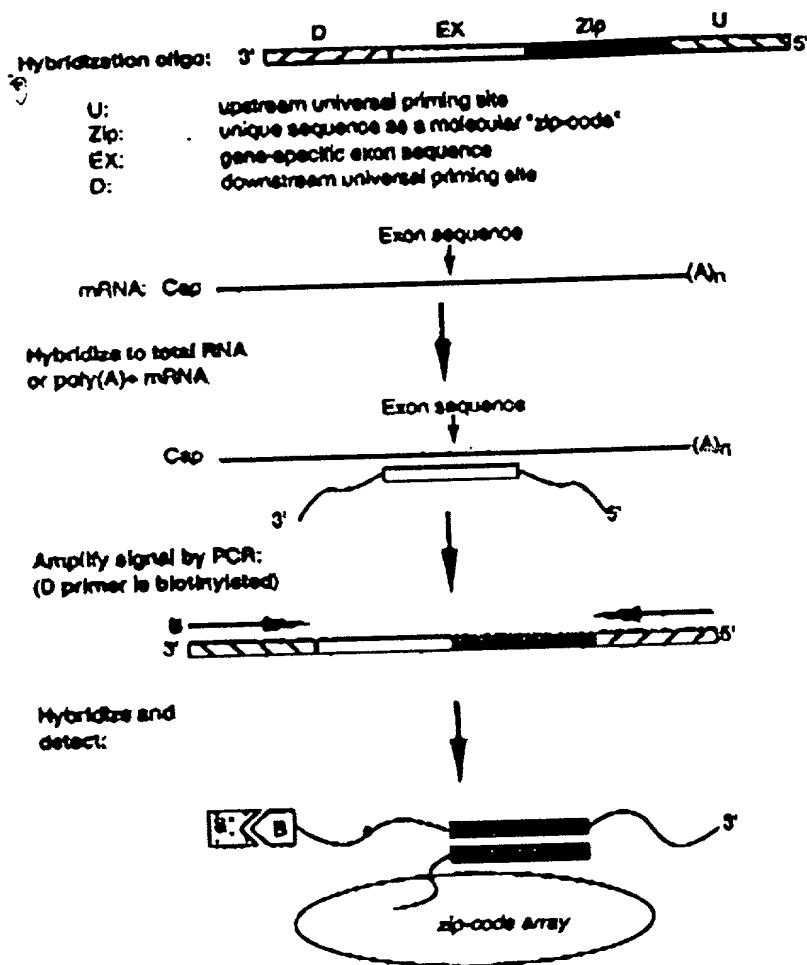


Figure 1

A flow chart for array-based detection of RNA alternative splicing

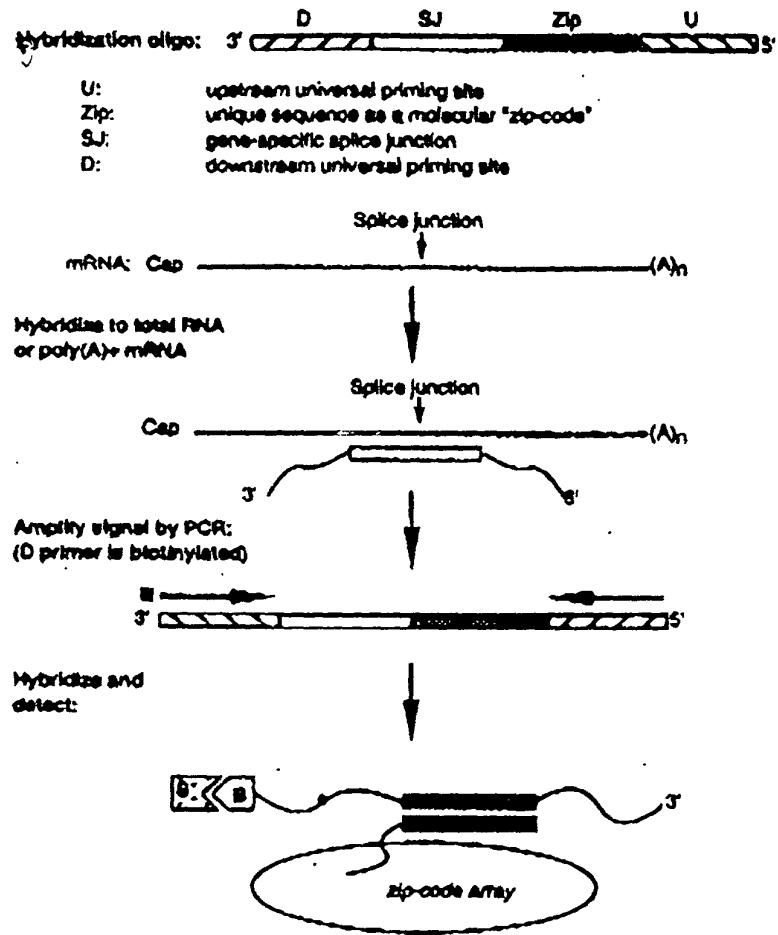


Figure 2

**Genome-wide gene expression profiling using oligo-ligation strategy**

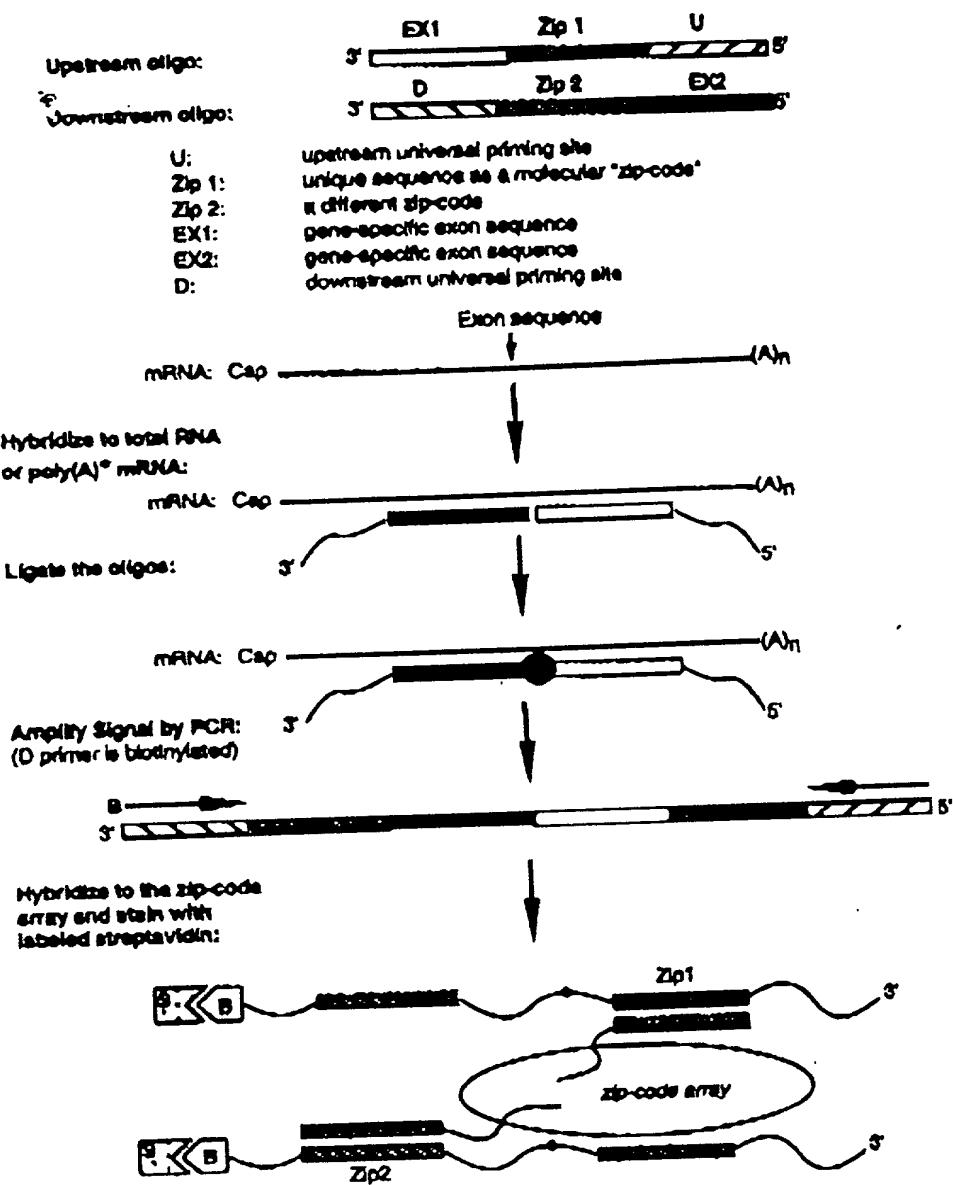


Figure 3

## Genome-wide RNA alternative splicing monitoring using oligo-ligation strategy

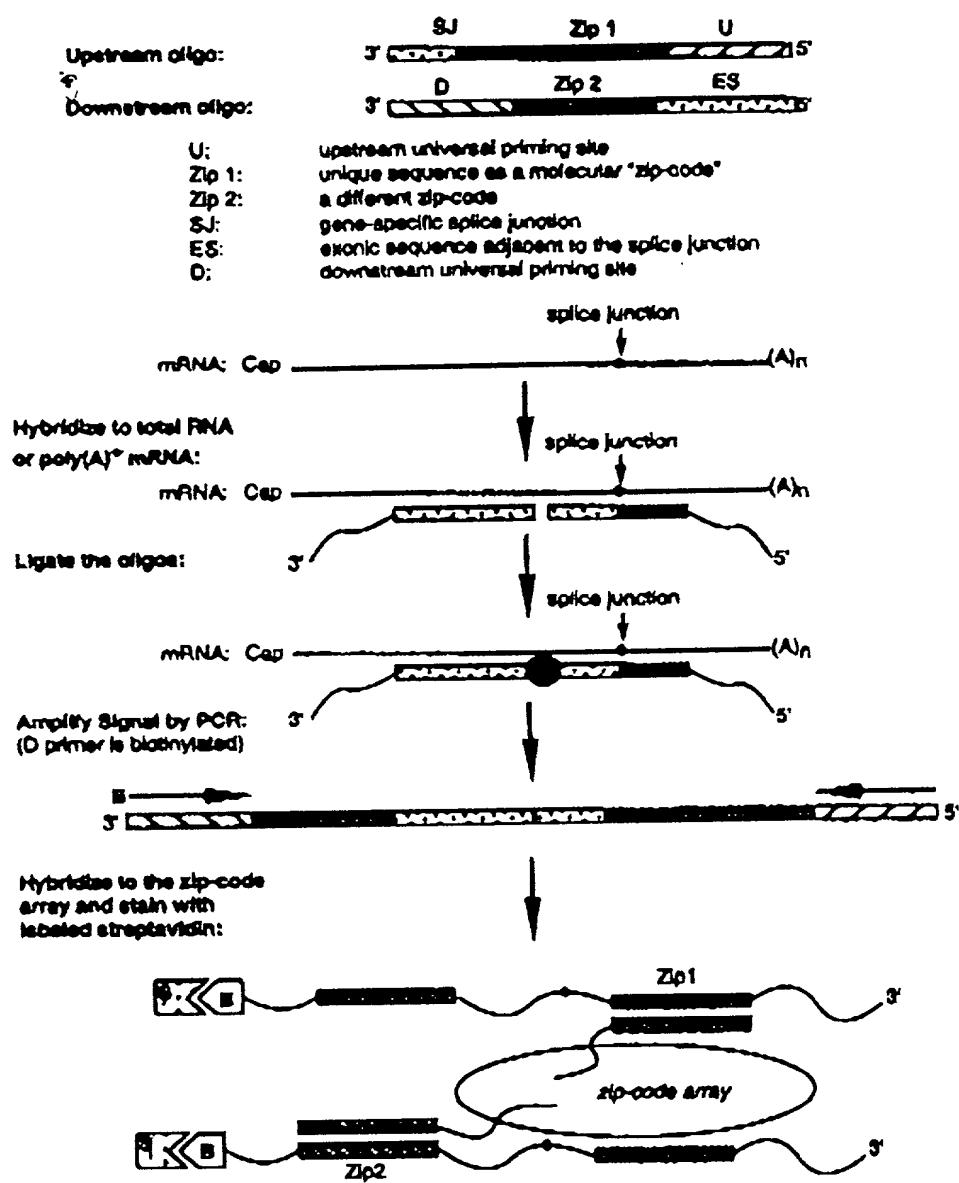


Figure 4

**Direct genotyping using a whole-genome oligo-ligation strategy**

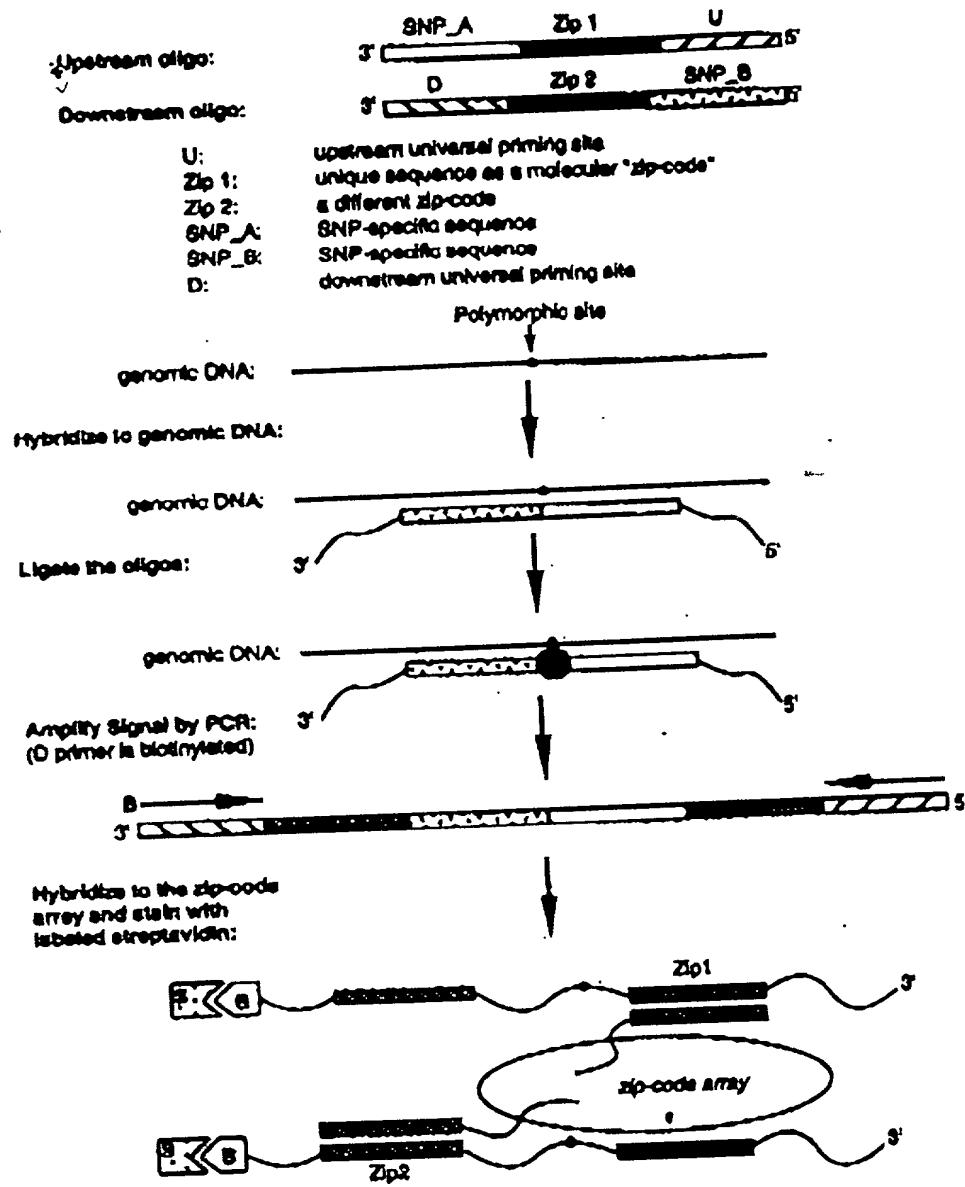
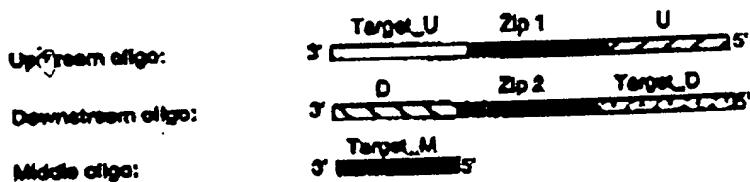


Figure 5

### Whole-genome oligo-ligation strategy



- U: upstream universal priming site
- Zip 1: unique sequence as a molecular "zip-code"
- Zip 2: a different zip-code
- Target\_U: upstream target-specific sequence
- Target\_D: downstream target-specific sequence
- Target\_M: middle target-specific sequence
- D: downstream universal priming site

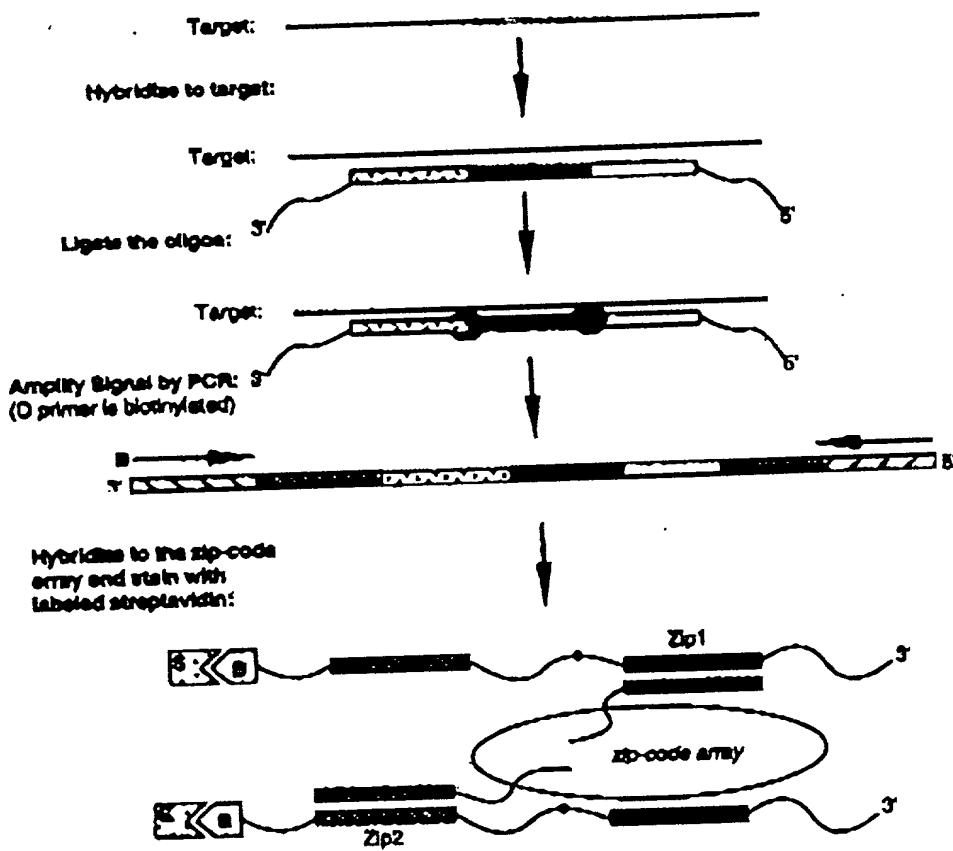


Figure 6

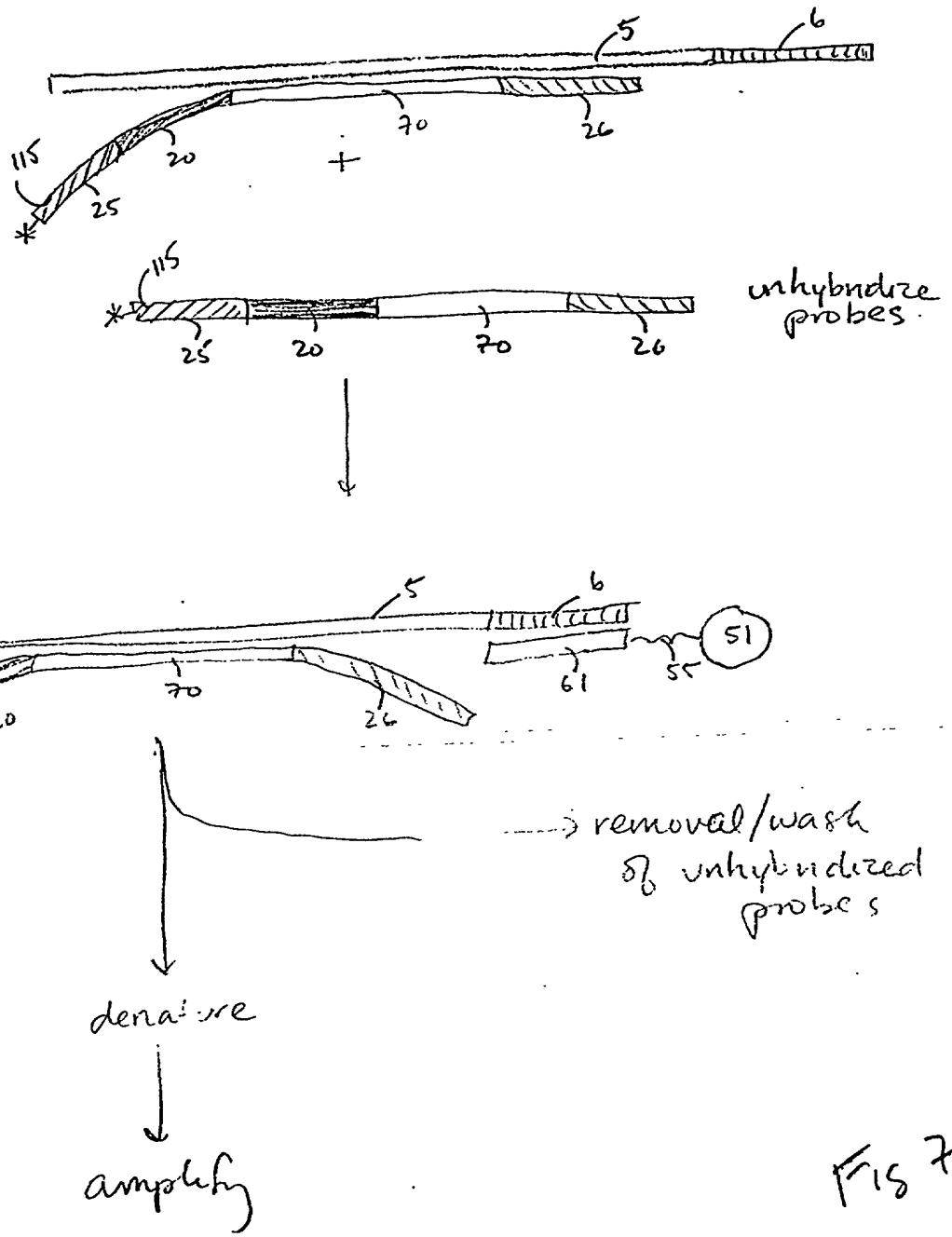
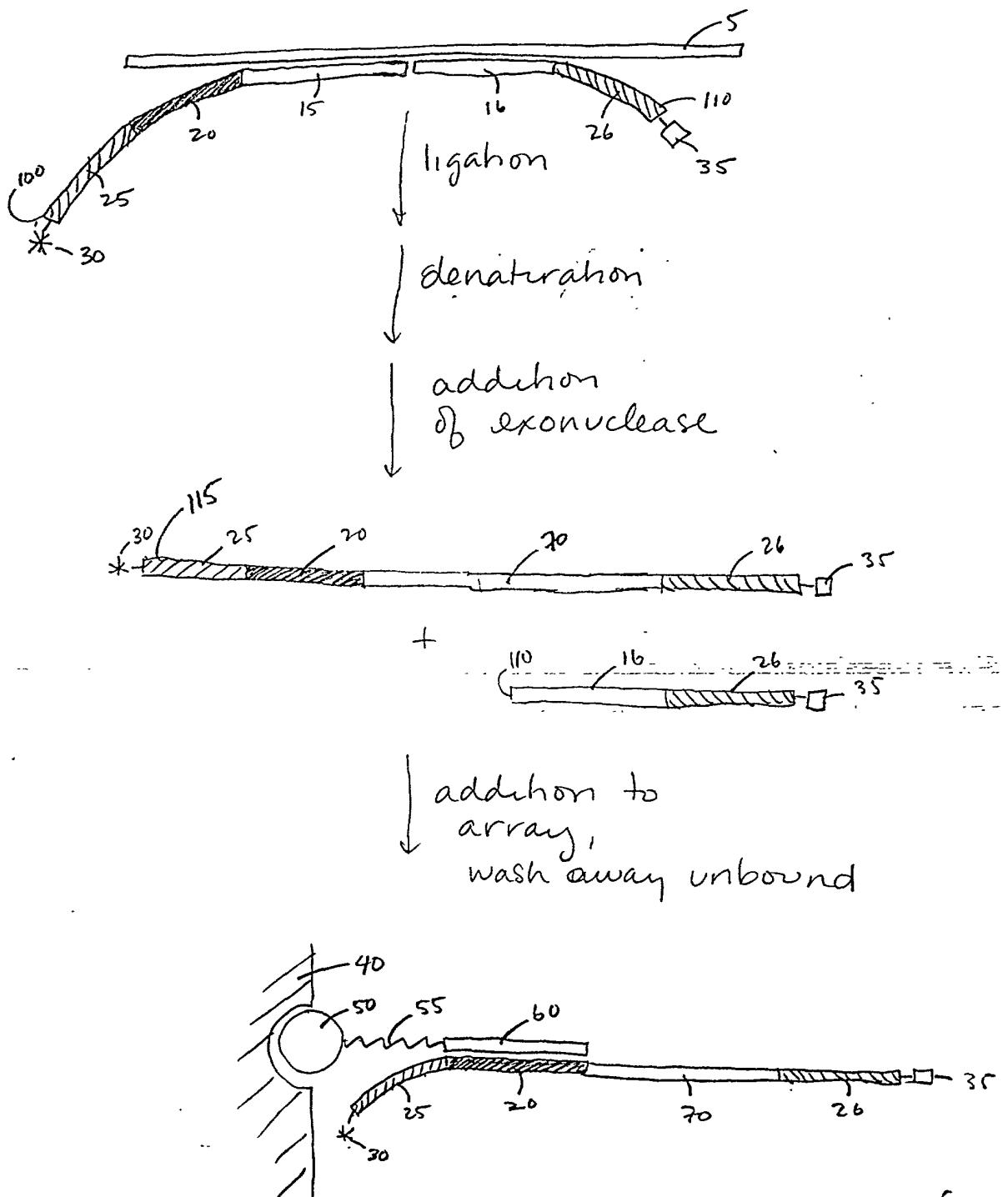


Fig 7



Figs 8

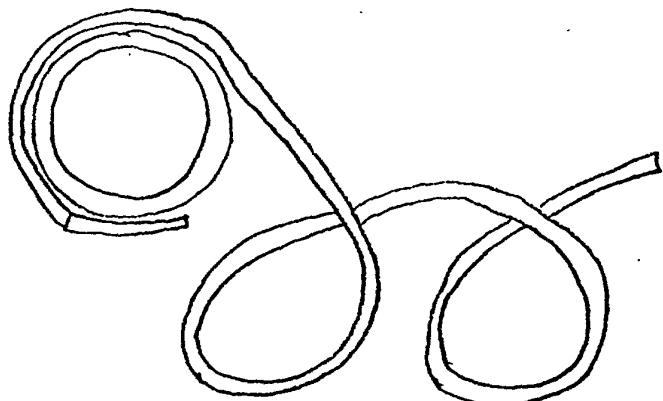
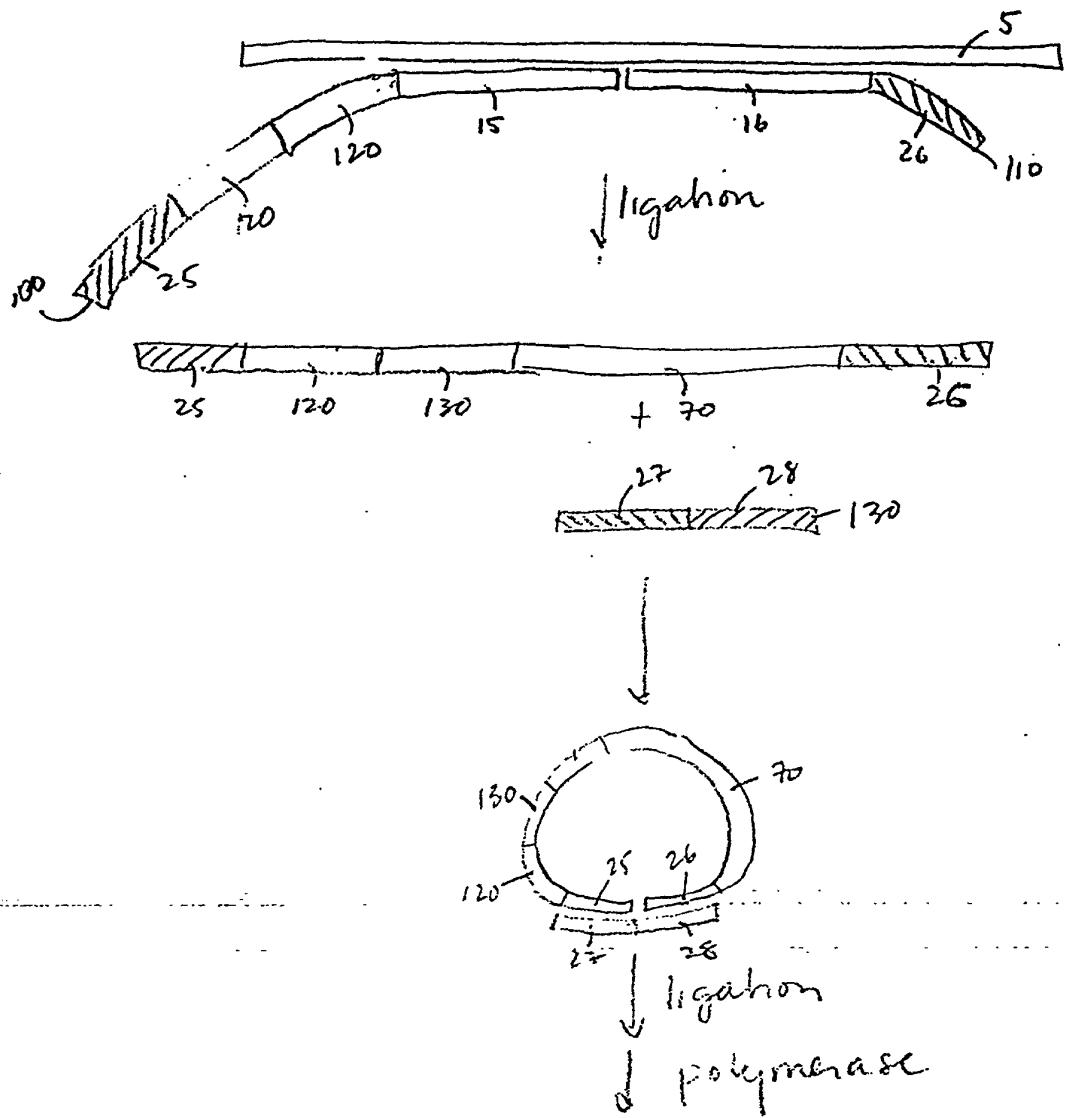
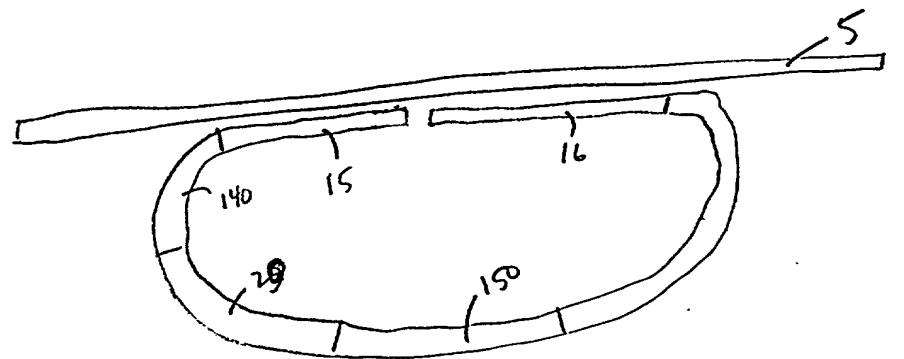
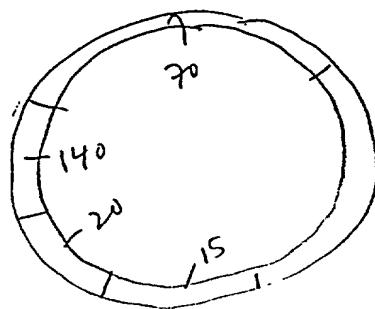


FIG 9



↓  
ligation, denaturation



↓  
addition of  
Primer,  
extension

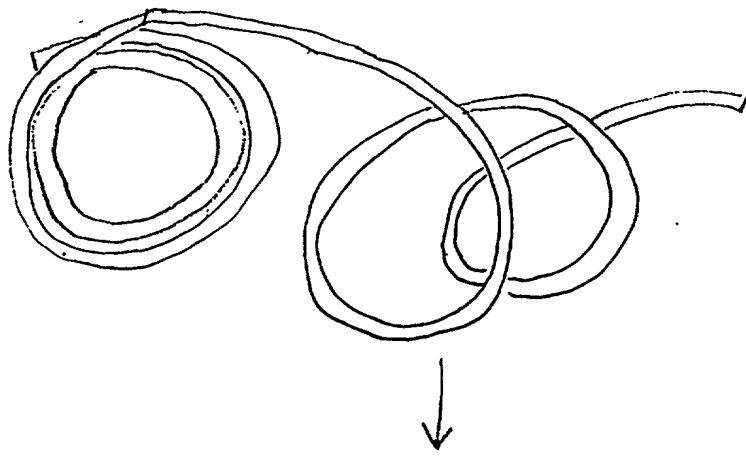


Fig 10